

NB LINEAR SYSTEMS

The leading manufacturer of high quality linear motion products!

NB LINEAR SYSTEMS are bearing mechanisms that produce linear reciprocating motion using the rolling motion of balls or rollers. In comparison to sliding motion, the frictional resistance of rolling motion is very small, resulting in very smooth movement. The rolling elements that NB uses are ground with a very high degree of precision, ensuring accuracy and long life even in high load and long distance travel applications. NIPPON BEARING, offers standard and customized linear motion components to customer requirements.

Slide Guide

NB Slide Guides are high precision and high rigidity linear bearings designed to utilize the motion of rolling elements. They have numerous characteristics, including low friction, no stick/slip, and smooth linear motion even under high load conditions. The applications range from general industrial to precision machinery.

Ball Spline

The NB Ball Spline is a linear motion mechanism utilizing the rotational motion of ball elements. It can be used in a wide variety of application, including robotics and transport type equipment. The NB Rotary Ball Spline can be used for both rotational- and linear motion. It can be used in scalar robots, the vertical shaft of assembly equipment, tool chargers and loaders.

Topball Products

The Topball slide bush is a high performance bushing with 3 times the load capacity and the capability to provide 27 times the normal travel life of a conventional bushing. NB's self aligning Topball can be designed into many applications such as factory-automation equipment, machine tools, industrial machinery, optical and measurement instruments and electrical equipment.

Slide Bush

The NB Slide Bush is a linear motion mechanism, utilizing the rotational movement of ball elements. It can be used in a wide variety of applications, including transportation equipment and semi conductor production equipment.



Slide Way

The NB Slide Way is a non-recirculating linear motion bearing utilizing precision rollers. It is used primarily in optical and measurement equipment, where high precision movement is required.

Slide Unit

A wide variety of linear motion Slide Units are available. Their high precision blocks increase the accuracy of machinery and other equipment. A resin block can reduce cost and weight. The use of standard shaft end supports and shaft support rails simplifies the components.

Single Axis Actuator

The NB BG type Actuator is a compact Single Axis Actuator, which integrates a slide guide and precision ball screw. BG type offers a unique "U" shaped guide rail and slide block which provides multiple functions of a guide block and a ball screw nut combined into a single unit. The slide block contains 4 ball circuits, which deliver high load capacity, high rigidity and high accuracy.

"The Acceleration Behind Your Best Ideas!"